

Trivia Question

.....What is the smallest whole number most divisible by integers?

<u>Hint:</u> It has something to do with the geometry of truncated icosahedron (first known by Archimedes and later rediscovered during the Renaissance by Da Vinci and others), a TV program and Buckyballs.

Leonardo da Vinci (1452-1519)

This rendition of the truncated icosahedron is from the book De Divina Proportione ("On Divine Proportion") by Fra' Luca Pacioli, published around 1498. The drawing is ascribed to Leonardo da Vinci. He seems to have invented this type of "skeleton model", which lets us view both the outside and the inside of the polyhedron.



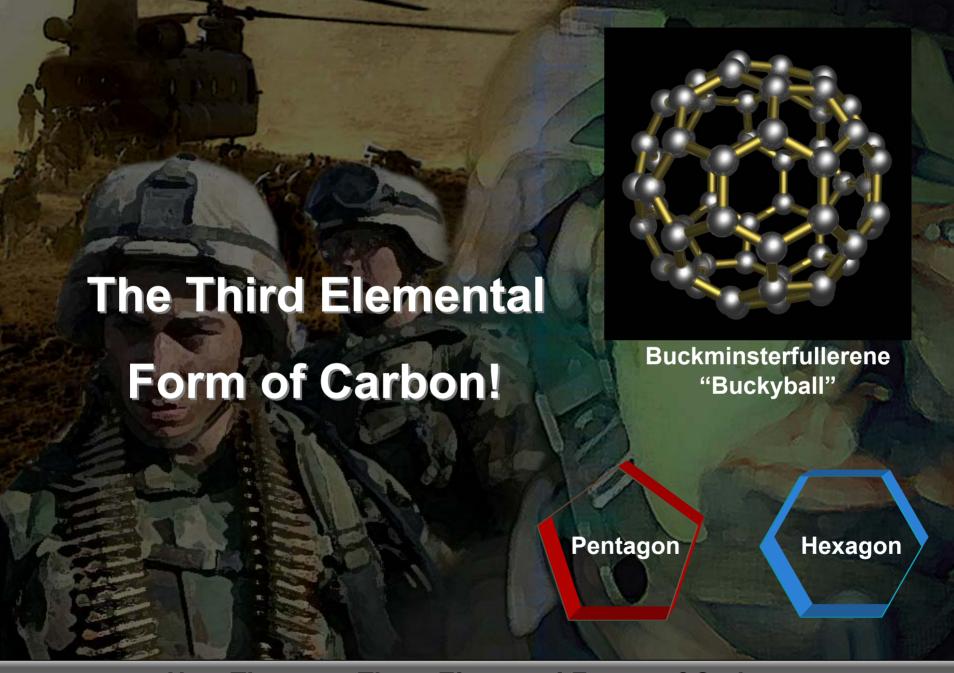


And the answer is.....

...the number 60, which by no accident is used to measure time. Note: 60 is divisible by 1, 2, 3, 4, 5, 6, 10, 12, 15, 20, 30 and 60.

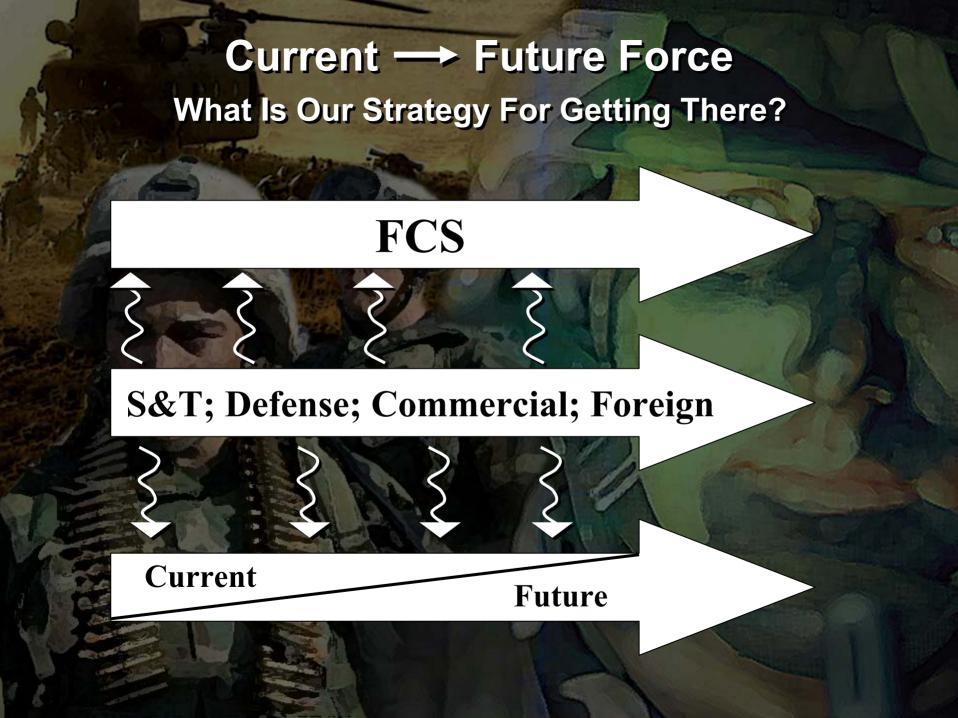
The TV Program is 60 Minutes!

And Buckyballs are made up of just carbon atoms arranged in the geometry of a truncated icosahedron - where individual carbon atoms are placed at the corners of each of 12 pentagons, 5 corners times 12 pentagons equals 60 carbon atoms.



Now There are Three Elemental Forms of Carbon





Interceptor Body Armor (IBA)

IBA = Outer Tactical Vest (OTV)

Ballistic Inserts (set)





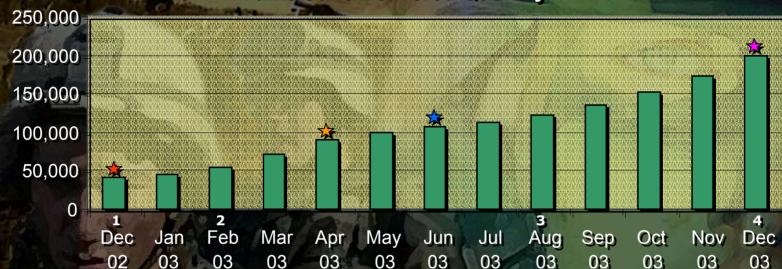


Ballistic Inserts are either the 4lb Small Arms
Ballistic Inserts (SAPI) containing
Spectra-Shield or slightly heavier plates made
from Kevlar or like products

Ballistic Plate Sets

(SAPI Sets)

Cumulative Delivered Quantity



- 1. Producers included Simula, Ceradyne and ArmorWorks
- 2. Point Blank added
- 3. Protech added

Sets of Plates

4. Force One added



Army ramped production to the maximum rate to field deploying combat units before deployment into Iraq. Decision made to waiver weight requirement.



Army successfully met the operational requirement of distributing IBA to all Combat Forces prior to deployment into Iraq.



Decision to distribute IBA to all Soldiers and DoD Civilians.



CSA decision to keep production ramped at 25K sets per month until entire Army requirement is complete.

Threats

- 7.62 X 39 mm ball– AK-47 Round (Steel Core)
- 7.62 x 54 mm ball– Sniper & Light Machine Gun Round (Steel Core)
- Improvised Explosive Device (IED)
 Fragment Simulating Projectile (FSP) 1
- Improvised Explosive Device (IED)
 Fragment Simulating Projectile (FSP) 2
- Rocket Propelled Grenade (RPG)
- Blast Vehicle Mine (4 lb blast)



'Fast and the Furious' UAH Production Acceleration



May 04 *

AOR Needs 5000 / Monthly Production 220

Feb 04 *

AOR Needs 5000 / Monthly Production 148
Army seeks dollars for 450 month

Jan 04

AOR Needs 4149 / Monthly Production 138

Oct 03

First Acceleration Dollars Received

Oct 03

AOR Needs 3279 / Monthly Production 76

Aug 03

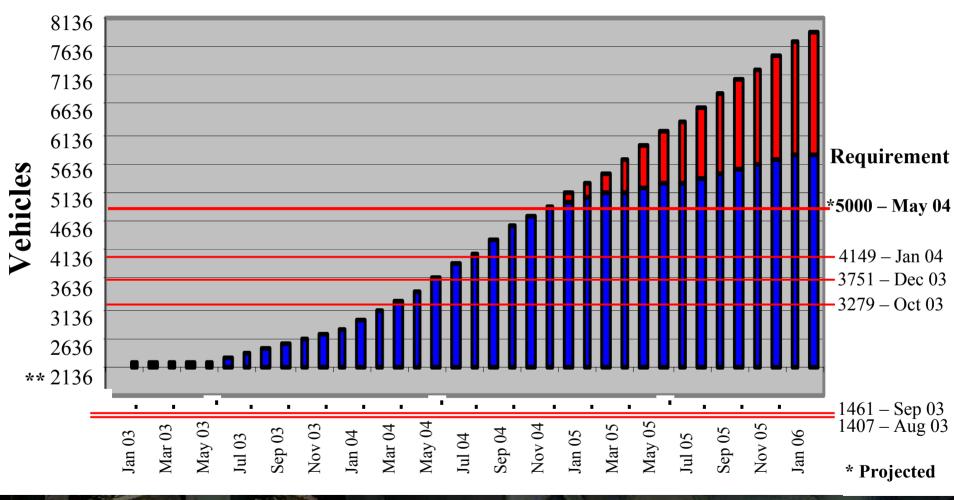
AOR Needs 1407 / Monthly Production 80

May 03

AOR Needs 235 / Monthly Production 12

M1114 AOR Requirements

HMMWV Production Acceleration



Currently Funded 220 Sustained

869 – Organic to Units

277 – OIF II Organic Assets

990 – Redistribution Assets From MACOMS

2136 – Other Than New Production To Meet AOR Requirement

Survivability

Soldier Field Modifications = Mad Max Machines













'Days of Thunder' UAH Kit Testing and Production



19 Feb 04

Ordered Steel for 2090 Remaining HMMWVs

18 Feb 04

270 FMTV/170 HEMTT/ 540 PLS Kits Ordered

Jan 04

2300 Kits Ordered

23 Dec 03

2860 Kits Ordered

23 Dec 03

First Kit Dollars Received

18 Nov 03

Issued DTC Safety Confirmation for M1025A2 w/OGH Kit

14 Nov 03

G-3 Directed Refined Requirement

27 Oct 03

1139 Kits Ordered

23 Oct 03

First ARL Kits Arrive in Balad

16 Oct 03

Production of ARL 2 Door Kit Begins

15 Oct 03

ATC begins first Ballistic Tests

19 Jan 96

Crew Protection Kit ORD

'Cannonball Run' FMTV / HEMTT / PLS Kits





12 Feb 04

32 HEMTT Kits Installed / 35 FMTV Kits Installed

11 Feb 04

Received HEMTT W/armor Kit for Ballistic Tests

5 Feb 04

Received PLS Kit for Test

19 Dec 03

Issued Safety Confirmation for FMTV

11 Dec 03

Issued Amendment to DTC Safety Confirmation for HEMTT

24 Nov 03

CJTF-7 Memo Adds HETS, PLS M915

19 Nov 03

Initiated HEMTT and FMTV Tests

14 Nov 03

G-3 Directed Requirement for HEMTT and FMTVs

Aircraft Survivability Equipment

AN/ALE-47 Counter Measures Dispenser System (CMDS)





ALE-47

Common Missile Warning System / Improved Countermeasure Dispenser (CMWS/ICMD)



CMWS







Rapid Equipping Force Force Protection Package



EXSPRAY



FERROTRACE



MAGNOMETERS





GE ITEMIZER3







